PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below NEC04P210A International filing date (day/month/year) Priority date (day/month/year) International application No. 19.12.2003 PCT/JP2004/018009 03.12.2004 International Patent Classification (IPC) or both national classification and IPC Applicant NEC CORPORATION This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Certain defects in the international application Box No. VII Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/JP

Telephone No

Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018009

Box	No. I	Basis of this opinion	
1.	With filed,	regard to the language, this opinion has been established on the basis unless otherwise indicated under this item.	of the international application in the language in which it was
		This opinion has been established on the basis of a translation from the	ne original language into the following language slation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).	, , , , , , , , , , , , , , , , , , , ,
2.	With inven	regard to any nucleotide and/or amino acid sequence disclosed ation, this opinion has been established on the basis of:	in the international application and necessary to the claimed
	a.	type of material	• .
		a sequence listing	·
		table(s) related to the sequence listing	·
	b.	format of material	
		in written format	
		in computer readable form	
	c.	time of filing/furnishing	
		contained in the international application as filed.	
		filed together with the international application in computer rea	dable form.
		furnished subsequently to this Authority for the purposes of sea	arch.
3.		In addition, in the case that more than one version or copy of a se furnished, the required statements that the information in the subseq filed or does not go beyond the application as filed, as appropriate, w	uent or additional copies is identical to that if the application as
4.	Addi	itional comments:	
		·	
			•
	•		
İ			
1			

WRITTEN OPINION OF THE . INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018009

Box l	No. V	Reasoned statemer citations and expla	it under Ru nations suj	ale 43bis.1(a)(i pporting such) with regard statement	d to novelty,	inventive step o	or industrial app	licability;
1.	Statement								
	Novelty (I	N)	Claims						YES
			Claims	1-7	 ,		•	<u> </u>	NO
	Inventive	step (IS)	Claims						YES
			Claims	1-7					NO
	Industrial	applicability (IA)	Claims	1-7		•			YES
			Claims						NO
		. <u> </u>	_						

2. Citations and explanations:

Document 1: JP, 2003-192925, A (Sony Corporation), 9 July, 2003 (09.07.03), the claims, paragraph [0010], [0013], [0021], [0024], [0027], [0035]-[0047] and the Example

The subject matters of claims 1-7 do not appear to be novel or to involve an inventive step, since they are described in document 1 cited in the ISR.

Document 1 describes a fire-retardant thermoplastic resin composition produced by mixing, as a fire retardant, alkali metal hydrate in a plant-derived biodegradable resin such as polylactic acid. Document 1 further describes that, in order to improve the preservation stability, the content of impurities including an alkali metal substance (e.g., Na_2O or the like when the alkali metal hydrate is aluminum hydroxide) is reduced and the purity of the alkali metal hydrate is set to be equal to or higher than 99.5%. That is, in the invention described in the cited document 1, the total content of the impurities including the alkali metal substance is equal to or lower than 0.5%, and the lower limit of the total content is not limited to a particular value.

Meanwhile, in the example of the present application, when the alkali metal hydrate is aluminum hydroxide, the content of the alkali metal substance as an impurity represents the total amount of Na_2O . Further, there is no mention on other alkali metal substances than Na_2O in other description in the specification of the present application.

Therefore, it is highly possible that the subject matters of claims 1-7 and the invention described in the cited document 1 overlap each other in terms of the content of the alkali metal substance in the alkali metal hydrate. Thus, no significant difference is recognized between the two.

Furthermore, the subject matters of claims 1-7 and the invention described in the cited document 1 are the same in their approach in that the impurities such as the alkali metal substance in the alkali metal hydrate are removed to improve the preservation stability (which is naturally considered to include hydrolysis resistance of polymer). Thus, even if there is s difference between the two, it is not particularly difficult to set the content of the alkali metal substance to be equal to or lower than 0.2 mass % in the invention described in the cited document 1. Further, in view of this, the subject matters of claims 1-7 are not considered to have a special effect.

Cited document 1 describes or suggests the addition of a compound having an aromatic ring as a compound for supporting the fire retardancy, a crystal nucleus agent, a high-strength fiber or the like.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018009

	Certain documents cited			
Certain p	ublished documents (Rule 43bis.1 and	70.10)	_	
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim (day/month/year)
JP	2004-307528 A [E, X]	04.11.2004	02.04.2003	
JР	2004-263180 A [E, X]	24.09.2004	12.02.2004	12.02.2003
	•			·
٠.				
. Non-wri	tten disclosures (Rule 43bis.1 and 70.9))		
	Kind of non-written disclosure	Date of non-written of day/month/ye	tisclosure referrit	te of written disclosure ng to non-written disclosure (day/month/year)
_		Date of non-written	tisclosure referrit	ng to non-written disclosure
_		Date of non-written	tisclosure referrit	ng to non-written disclosure
_		Date of non-written	tisclosure referrit	ng to non-written disclosure
<u>-</u>		Date of non-written	tisclosure referrit	ng to non-written disclosure
_	Kind of non-written disclosure	Date of non-written	tisclosure referrit	ng to non-written disclosure
		Date of non-written	tisclosure referrit	ng to non-written disclosure
	Kind of non-written disclosure	Date of non-written (day/month/ye	tisclosure referrit	ng to non-written disclosure
<u>-</u>	Kind of non-written disclosure	Date of non-written (day/month/ye	tisclosure referrit	ng to non-written disclosure (day/month/year)